CLAIMS

1) A recombinant~~Recombinant~~ baculovirus ~~constituting~~ comprising an expression vector ~~that can be used~~ for use in the production of immunoglobulins in an insect cell, ~~and characterized in that it comprises~~said expression vector comprising:

~~an~~a first expression cassette comprising a first sequence coding for at least one part of an immunoglobulin H chain, ~~which~~ wherein said first sequence is ~~placed~~ under transcriptional control of a first baculovirus promoter,

~~an~~a second expression cassette comprising a second sequence coding for at least one part of an immunoglobulin L chain, ~~which~~ wherein said second sequence is ~~placed~~ under transcriptional control of a second baculovirus promoter; wherein

~~the~~ said first baculovirus promoter and ~~the~~ said second baculovirus promoter~~promoters~~ are two different promoters and are located at two different loci.

2) The recombinant~~Recombinant~~ baculovirus in accordance with Claim 1, ~~characterized in that~~wherein one of ~~the~~ said first and second baculovirus promoters is located at the site occupied in the wild baculovirus by the polyhedrin promoter and ~~that~~ the other baculovirus promoter is located at the site occupied in the wild baculovirus by the p10 promoter.

3) The recombinant~~Recombinant~~ baculovirus in accordance with Claim 1 or 2, ~~characterized in that the two~~said first and second baculovirus promoters are strong promoters, wherein said strong promoters are at least as strong as a polyhedrin promoter or a p10 promoter.

4) The recombinant~~Recombinant~~ baculovirus in accordance with Claim 3, ~~characterized in that~~wherein at least one of the first and second baculovirus promoters is selected from the group ~~constituted by~~consisting of:

- ~~the~~ a p10 promoter;

- ~~the~~ a polyhedrin promoter; and

- a synthetic promoter, referred to as Syn promoter and ~~constituted by~~comprising a double-~~strand~~ stranded DNA fragment ~~the sequence of which, shown in the attached sequence listing as SEQ ID NO.: 1 and SEQ ID NO.: 2, is the following~~having the following sequences:

5- -3 (SEQ ID NO:1
ATCAAATAAATAAGTATTTTAAAGAATTCGTACGTATTTTGTATATTAATTAAAATACTATACTGTAAATAGATCG
TAGTTTATTTATTCATAAAATTTCTTAAGCATGCATAAAACATATAATTAATTTTATGATATGACATTTATCTAGCCTAG
3- -5 (SEQ ID NO:2)

5) The recombinant~~Recombinant~~ baculovirus in accordance with ~~one of Claims~~Claim 1 ~~to 4, characterized in that~~wherein each of said first and second expression ~~cassette~~ cassettes comprises: (i) a strong baculovirus promoter at least as strong as a polyhedrin or p10 promoter and, under the control of ~~the~~ said promoter: (ii) a sequence coding for a signal peptide; (iii) a sequence coding for a variable immunoglobulin domain; and (iv) a sequence coding for a constant domain of an immunoglobulin H or L chain.

6) The recombinant~~Recombinant~~ baculovirus in accordance with Claim 5, ~~characterized in that the~~ wherein said sequence coding for a signal peptide ~~placed under the control of the first promoter~~f said first expression cassette is different from ~~the~~ said sequence coding for a signal peptide ~~placed under the control of the second promoter~~of said second expression cassette.

7) The recombinant~~Recombinant~~ baculovirus in accordance with Claim 5 ~~or 6, characterized in that~~, wherein at least one of the sequences coding for a signal peptide codes for a peptide that has an His-Val-Ser signal immediately upstream of the cleavage site used by the signal peptidase.

8) The recombinant~~Recombinant~~ baculovirus in accordance with ~~one of Claims~~Claim 5 ~~to 7, characterized in that the sequence~~wherein at least one of said coding for ~~the~~ a constant immunoglobulin domain is a sequence of human origin.

9) An insect~~Insect~~ cell infected by a recombinant baculovirus in accordance with ~~one of Claims~~Claim 1~~ to 8~~.

10) A method for preparing an immunoglobulin comprising the steps of: culturing ~~Procedure for the preparation of an immunoglobulin, characterized in that~~ insect cells in accordance with Claim 9~~ are cultured~~ and ~~that the~~extracting said immunoglobulin ~~is extracted~~ from the culture medium.

11) An immunoglobulin~~Immunoglobulin, characterized in that it can be~~ obtained by the ~~procedure in accordance with~~method of Claim 10.

12) A process for preparing~~Procedure for the preparation of~~ a recombinant baculovirus in accordance with ~~one of Claims~~Claim 1~~ to 8, which procedure is characterized in that~~comprising the steps of:

- ~~one prepares~~preparing a first transfer plasmid comprising a sequence coding for at least one part of an immunoglobulin H chain, under transcriptional control of a first strong baculovirus promoter; at least as strong as a polyhedrin promoter or p10 promoter

- ~~one prepares~~preparing a second transfer plasmid comprising ~~the~~ a sequence coding for at least one part of an immunoglobulin L chain, under transcriptional control of a second strong beculovirus at least as strong as a polyhedrin promoter or p10 promoter~~ of the said baculovirus~~;

- ~~with the~~wherein said first and second promoters ~~being~~ are two different promoters;

- ~~one carries out the~~performing homologous recombination of the two plasmids with baculovirus DNA;

- allowing replication of viral DNA in transfected cells;

- ~~after replication of the viral DNA in transfected cells, one proceeds to the selection of the~~selecting recombinant baculoviruses that have integrated the

sequence coding for at least one part of the immunoglobulin H chain and the sequence coding for at least one part of the immunoglobulin L chain.

13) ~~Procedure in accordance with~~with the process according to Claim 12, ~~characterized in that~~wherein each of said first and second transfer ~~plasmid used~~plasmids carries an insert comprising:

- an expression cassette ~~such as defined in Claim 5 and, on both sides of this cassette,~~comprising a strong baculovirus promoter at least as strong as a polyhedrin promoter and, under the control of said promoter, a sequene coding for a signal peptide, a sequence coding for a variable immunoglobulin domain, and a sequence coding for a constant domain of an immunogloulin H or L chain, said expression cassette flanked on each side by baculovirus sequences homologous with those of the regions flanking the portion of the viral genome ~~which it is the intention to replace by insertion of the said cassette~~being replaced by said expression cassette.

14) The process according to~~Procedure in accordance with~~ Claim 13, ~~characterized in that the~~wherein said baculovirus sequences are homologous with ~~those~~ sequences of the regions flanking the p10 gene or ~~homologous with those of the regions flanking~~ the polyhedrin gene.

15) The process according to~~Procedure in accordance with~~ Claim 14, ~~characterized in that the~~wherein said baculovirus DNA ~~with which is effected the homologous recombination of the transfer plasmids is constituted by~~comprises DNA from a baculovirus ~~that has previously been modified by insertion of two~~having a Bsu36I sit on ~~both sides~~each side of the sequence coding for the p10 protein ~~(these~~, wherein said two Bsu36I sites ~~being~~ are the only Bsu36I sites ~~for the enzyme under consideration in the genome~~ of ~~the~~ said ~~modified~~ baculovirus~~)~~ DNA and wherein said baculovirus DNA is digested by the enzyme Bsu36I.